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1 HOUSE RESOLUTION

- 2 WHEREAS, The members of the Illinois House of
- 3 Representatives wish to express their sincere condolences to
- 4 the family and friends of Ugo Fano, who passed away on
- 5 February 13, 2001; and
- 6 WHEREAS, Mr. Fano was a groundbreaking nuclear physicist
- 7 who discovered how light and matter interact at the subatomic
- 8 level; and
- 9 WHEREAS, Mr. Fano was a former chairman of the University
- of Chicago's physics department, and a professor emeritus
- 11 there since 1982; and
- 12 WHEREAS, As a student of Enrico Fermi and Werner
- Heisenberg in the 1930's, Professor Fano provided one of the
- 14 few direct links between modern researchers and what has been
- 15 termed physic's Golden Age at the beginning of the 20th
- 16 century; he predicted spinning electrons, explained the
- 17 reason behind asymmetrical spectral shapes emitted by excited
- 18 atoms, and indentified the effects of radioactivity on human
- 19 genes; and
- 20 WHEREAS, Professor Fano was adept at spotting unseen
- 21 implications in other people's research; he earned the
- 22 reputation for explaining apparently diverse and complex
- 23 phenomena into simple and practical descriptions; his work
- led to a wide range of practical applications in fields from
- 25 nuclear medicine to laser research; and
- 26 WHEREAS, Professor Fano was born in Torino, Italy; his
- 27 father was a renowned mathematician, but Professor Ugo
- 28 gravitated to atomic physics by the time he was a teen; he
- 29 received his doctorate in mathematics from the University of
- 30 Torino in 1934 and did postdoctoral work at the University of
- 31 Rome until 1936; and

- 1 WHEREAS, Professor Fano led U.S. research in the 1940's
- and 1950's to discover the effects of radiation on biological
- 3 systems; in 1959, he co-wrote a book on the mathematics
- 4 underlying interactions between atomic particles and
- 5 radiation; in the same year he co-wrote a book with his wife,
- 6 Camilla, on basic physics of atoms and molecules; and
- 7 WHEREAS, Professor Fano joined the faculty at the
- 8 University of Chicago in 1966; in 1968, he authored an
- 9 article that set an agenda for particle accelerator research
- 10 that has lasted for decades; in the late 1960's he forecasted
- 11 that by shooting beams of light with certain known energies
- 12 at atoms, electrons could be kicked off and spun in
- 13 predictable directions; This work produced a key method for
- 14 creating spin-polarized electron beams, which would later be
- used to probe groupings of molecules and magnetic materials
- 16 to discover their structures; and
- 17 WHEREAS, At the University of Chicago, Professor Fano was
- 18 regarded as an accomplished and demanding teacher; he was
- 19 appointed chairman of the University of Chicago's physics
- department in 1972; and
- 21 WHEREAS, Professor Fano earned many awards and
- 22 distinctions during his life which included the United States
- 23 Department of Energy's Enrico Fermi Award in 1996, his
- 24 election into the Royal Society of London in 1995 and to the
- 25 Accademia Nazionale dei Lincei in 1993; He was the recipient
- of the United States Department of Commerce Award in 1968,
- 27 the Stratton Award from the National Bureau of Standards in
- 28 1963, and the Rockefeller Public Service Award in 1956; and
- 29 WHEREAS, The passing of Ugo Fano will be deeply felt by
- 30 all who knew and loved him, especially his wife, Camilla, his
- 31 daughters, Mary Giacomoni and Virginia Ghattas; his brother,
- 32 Robert Fano; and his grandchildren; therefore, be it

- 1 RESOLVED, BY THE HOUSE OF REPRESENTATIVES OF THE
- 2 NINETY-SECOND GENERAL ASSEMBLY OF THE STATE OF ILLINOIS, that
- 3 we mourn, along with all who knew him, the death of the
- 4 University of Chicago's world renowned professor, Ugo Fano of
- 5 Chicago, Illinois; and be it further
- 6 RESOLVED, That a suitable copy of this resolution be
- 7 presented to the family of Ugo Fano with our sincere
- 8 condolences.